

INCH-POUND

MIL-DTL-27072/66C  
8 December 2000  
SUPERSEDING  
MIL-C-27072/66B  
10 May 1994

## DETAIL SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, MULTICONDUCTOR  
(7 CONDUCTORS) AND SINGLE SHIELDED,  
M27072/66LEDD\*

This specification is approved for use by all Departments  
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-27072C.

### REQUIREMENTS:

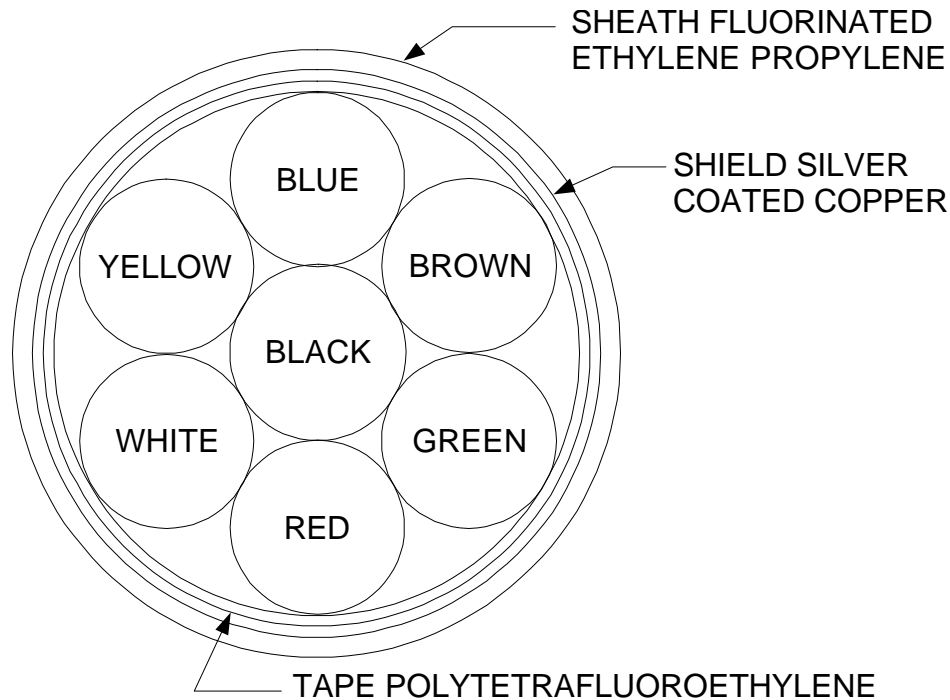


FIGURE 1. Cable configuration.

\*The complete part number requires a color code designator (see table I).

Design and construction:	See figure 1.
Number of conductors:	7
Temperature rating:	200 °C
Component:	
Basic wire:	M22759/9-22* (formerly M16878/5BFE***) or NEMA HP3-EEWBFE* (formerly M16878/22BFE***)(See table I.)
Conductor:	Silver-coated copper
Primary insulation:	Polytetrafluoroethylene
Colors:	Black Blue Brown Green Red White Yellow
Jacket over Insulation:	Not applicable
Filler:	Not applicable
Cabling:	
Core:	
Number of conductors:	1
Pitch or lay:	Pull in straight
First layer:	
Number of conductors:	6
Pitch or lay:	2.75 inches maximum
Binder tape material:	Polytetrafluoroethylene
Shield:	
Material:	Silver-coated copper
Gauge:	36 AWG
Braid angle:	20 to 40 degrees
Jacket undershield:	Not applicable
Sheath:	
Material:	Fluorinated ethylene propylene
Wall thickness:	.015 inch nominal
Tensile strength:	In accordance with table V of MIL-DTL-27072
Ultimate elongation:	In accordance with table V of MIL-DTL-27072
Accelerated aging:	Not applicable
Color:	See table IV of MIL-DTL-27072
Finished cable:	See table I
Cold bend:	Mandrel size in accordance with table XIII of MIL-DTL-27072
Dielectric withstanding voltage:	3,000 V rms
Conductor resistance:	In accordance with basic specification

Table I. Construction data.

PIN 27072/66	Basic wire except color M22579/9-22* <sup>1/</sup> or NEMA HP3-EEWFEB* (reference)				Finished cable diameter (in.) $\pm 10\%$
	Wire size (AWG)	Number of strands	Strand size	Nominal diameter (inch)	
LEDD*	22	19	34	.060	.250

NOTE: <sup>1/</sup> MIL-W-22759/9-22\* color code is in accordance with MIL-STD-681.

Asterisks (\*) shall be replaced by the appropriate color designator.

CHANGES FROM PREVIOUS ISSUE: Marginal notations are not used in this revision to identify changes with respect to the previous issues due to the extensiveness of the changes.

## CONCLUDING MATERIAL

Custodians:  
Army - CR  
Navy - SH  
Air Force - 11  
DLA - CC

Preparing activity:  
DLA - CC  
(Project 6145-2262-015)